#8



OIPE

RAW SEQUENCE LISTING DATE: 07/02/2002 PATENT APPLICATION: US/10/076,691 TIME: 13:59:28

Input Set : N:\Crf3\RULE60\10076691.raw
Output Set: N:\CRF3\07022002\J076691.raw

SEQUENCE LISTING

```
3 (1) GENERAL INFORMATION:
             (i) APPLICANT: SHEPARD, H. M.
      5
                            KAN, NANCY
      6
            (ii) TITLE OF INVENTION: GENE THERAPY BY RETROVIRAL VECTOR WITH
      8
      9
                                      TUMOR SUPPRESSIVE GENE
           (iii) NUMBER OF SEQUENCES: 2
     11
            (iv) CORRESPONDENCE ADDRESS:
     13
                  (A) ADDRESSEE: TOWNSEND AND TOWNSEND AND CREW LLP
     14
                  (B) STREET: TWO EMBARCADERO CENTER, 8TH FLOOR
     15
                                                               ENTERED
     16
                  (C) CITY: SAN FRANCISCO
     17
                  (D) STATE: CA
                  (E) COUNTRY: U.S.A.
     18
     19
                  (F) ZIP: 94111-3834
             (V) COMPUTER READABLE FORM:
     21
                  (A) MEDIUM TYPE: Floppy disk
     22
                  (B) COMPUTER: IBM PC compatible
     23
                  (C) OPERATING SYSTEM: PC-DOS/MS-DOS
     24
                  (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
     25
     27
            (vi) CURRENT APPLICATION DATA:
C--> 28
                  (A) APPLICATION NUMBER: US/10/076,691
                  (B) FILING DATE: 14-Feb-2002
C--> 29
     30
                  (C) CLASSIFICATION:
           (vii) PRIOR APPLICATION DATA:
     32
                  (A) APPLICATION NUMBER: US/08/403,797
     33
                  (B) FILING DATE: 04-DEC-1995
     34
                  (A) APPLICATION NUMBER: PCT/US95/08844
     36
                  (B) FILING DATE: 17-SEP-1993
     37
          (viii) ATTORNEY/AGENT INFORMATION:
     39
                  (A) NAME: FITTS, RENEE A
     40
                  (B) REGISTRATION NUMBER: 35,136
     41
                  (C) REFERENCE/DOCKET NUMBER: 16930-000600
     42
            (ix) TELECOMMUNICATION INFORMATION:
     44
                  (A) TELEPHONE: (415) 326-2400
     45
                  (B) TELEFAX: (415) 576-0300
        (2) INFORMATION FOR SEQ ID NO: 1:
     51
             (i) SEQUENCE CHARACTERISTICS:
                  (A) LENGTH: 7 amino acids
     52
     53
                  (B) TYPE: amino acid
                  (C) STRANDEDNESS: Not Relevant
     54
W--> 55
                  (D) TOPOLOGY: Not Relevant
     57
            (ii) MOLECULE TYPE: peptide
            (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
     62
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	64	Ser	His :	Arg	Pro	Gly	Ser	Arg									
	65	1				5											
		7 (2) INFORMATION FOR SEQ ID NO: 2:															
	69 (i) SEQUENCE CHARACTERISTICS:																
	70	71 (B) TYPE: amino acid 72 (C) STRANDEDNESS: Not Relevant															
	71																
	72																
W>	73		(D)	TOP	OLOG	Y: N	ot R	elev	ant				•				
	75	(ii)	MOLE	CULE	TYP	E: p	epti	.de									
	80	(xi)	SEQU	ENCE	DES	CRIP	TION	: SE	Q ID	NO:	2:						
	82	Leu	Leu	Gly	Ser	Gly	Asp	Thr	Leu	Arg	Ser	Gly	Trp	Glu	Arg	Ala	Phe
	83	1				5					10					15	
	85	His	Asp	Gly	Asp	Thr	Leu	Pro	Trp	Ile	Glÿ	Ser	Gln	Thr	Ala	Phe	Arg
	86				20					25					30		
	88	Val	Thr .	Ala	Met	Glu	Glu	Pro	Gln	Ser	Asp	Pro	Ser	Val	Glu	Pro	Pro
	89			35					40					45			
	91	Leu	Ser	Gln	Glu '	Thr	Phe	Ser	Asp	Leu	Trp	Lys	Leu	Leu	Pro	Glu	Asn
	92		50					55					60				
	94	Asn	Val	Leu	Ser	Pro	Leu	Pro	Ser	Gln	Ala	Met	Asp	Asp	Leu	Met	Leu
	95	65					70					75					80
	97	Ser	Pro .	Asp	Asp	Ile	Glu	Gln	Trp	Phe	Thr	Glu	Asp	Pro	Gly	Pro	Asp
	98					85					90					95	
	100	Glu	ı Ala	Pro	Arg	Met	Pro	Glu	ı Ala	Ala	Pro	Pro	Val	Ala	a Pro	Ala	a Pro
	101				100					105					110		
	103	Ala	Ala	Pro	Thr	Pro	Ala	Ala	Pro	Ala	Pro) Ala	Pro	Sei	Tr	Pro	Leu
	104			115					120					125			
	106	Ser	Ser	Ser	Val	Pro	Ser	Gln	Lys	Thr	Tyr	Gln	Gly	Sei	туз	Gly	y Phe
	107		130					135					140				
	109	Arg	Leu	Gly	Phe	Leu	His	Ser	Gly	Thr	Ala	Lys	Ser	Va]	Thi	. Cys	s Thr
	110	145					150					155					160
	112	Tyr	Ser	Pro	Ala	Leu	Asr	Lys	Met	Phe			Leu	Ala	a Lys		Cys
	113					165					170					175	
	115	Pro	val	Gln			Val	. Asp	Ser			Pro	Pro	Gl			y Val
	116				180					185					190		
	118	Arg	, Ala			Ile	туг	Lys			Glr	His	Met			ı Val	l Val
	119			195					200					205			
	121	Arg			Pro	His	His			Cys	Ser	Asp			o Gly	, Le	ı Ala
*	122		210					215			_		220			.	_
	124			Gln	His	Leu		_	, Val	. Glu	ı Gl			Arg	y Val	L Gli	ı Tyr
	125	225					230					235					240
	127	Leu	ı Asp	Asp	Arg			Phe	Arg	His			Val	. Val	L Pro		r Glu
	128					245					250					255	
	130	Pro	Pro	Glu		_	Ser	Asp	Cys			Ile	His	Туз			r Met
	131				260					265					270		
	133	Суз	: Asn			Cys	Met	: Gly	_		Asr	n Arg	Arg			e Let	ı Thr
	134			275					280					289			
	136	Il ϵ			Leu	Glu	Asp			Gly	/ Asr	1 Leu			y Arg	, Ası	n Ser
	137		290					295					300				
	139	Phe	e Glu	Val	Arg	Val	. Cys	: Ala	Cys	Pro	Gly	/ Arg	Asp	Arg	g Arg	Th:	r Glu

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140	305				310					315					320
142	Glu Gl	u Asn	Leu	Arg	Lys	Lys	Gly	Glu	Pro	His	His	Glu	Leu	Pro	Pro
143				325					330					335	
145	Gly Se	r Thr	Lys	Arg	Ala	Leu	Pro	Asn	Asn	Thr	Ser	Ser	Ser	Pro	Gln
146			340					345					350		
148	Pro Ly	s Lys	Lys	Pro	Leu	Asp	Gly	Glu	Tyr	Phe	Thr	Leu	Gln	Ile	Arg
149		355					360					365			
151	Gly Ar	g Glu	Arg	Phe	Glu	Met	Phe	Arg	Glu	Leu	Asn	Glu	Ala	Leu	Glu
152	37	0				375					380				
154	Leu Ly	s Asp	Ala	Gln	Ala	Gly	Lys	Glu	Pro	Gly	Gly	Ser	Arg	Ala	His
155	385				390					395					400
157	Ser Se	r His	. Leu	Lys	Ser	Lys	Lys	Gly	Gln	Ser	Thr	Ser	Arg	His	Lys
158				405					410					415	
160	Lys Le	u Met	Phe	Lys	Thr	Glu	Gly	Pro	Asp	Ser	Asp				
161			420					425							

VERIFICATION SUMMARY PATENT APPLICATION: US/10/076,691 DATE: 07/02/2002 TIME: 13:59:29

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L:28 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:29 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:55 M:246 W: Invalid value of Alpha Sequence Header Field, [TOPOLOGY:], SeqNo=1 L:73 M:246 W: Invalid value of Alpha Sequence Header Field, [TOPOLOGY:], SeqNo=2